EE/CprE/SE 491 WEEKLY REPORT 04

Feb 27 – Mar 5

Group number: 3

Project title: Small Equipment Locker

Client &/Advisor: Matthew Post

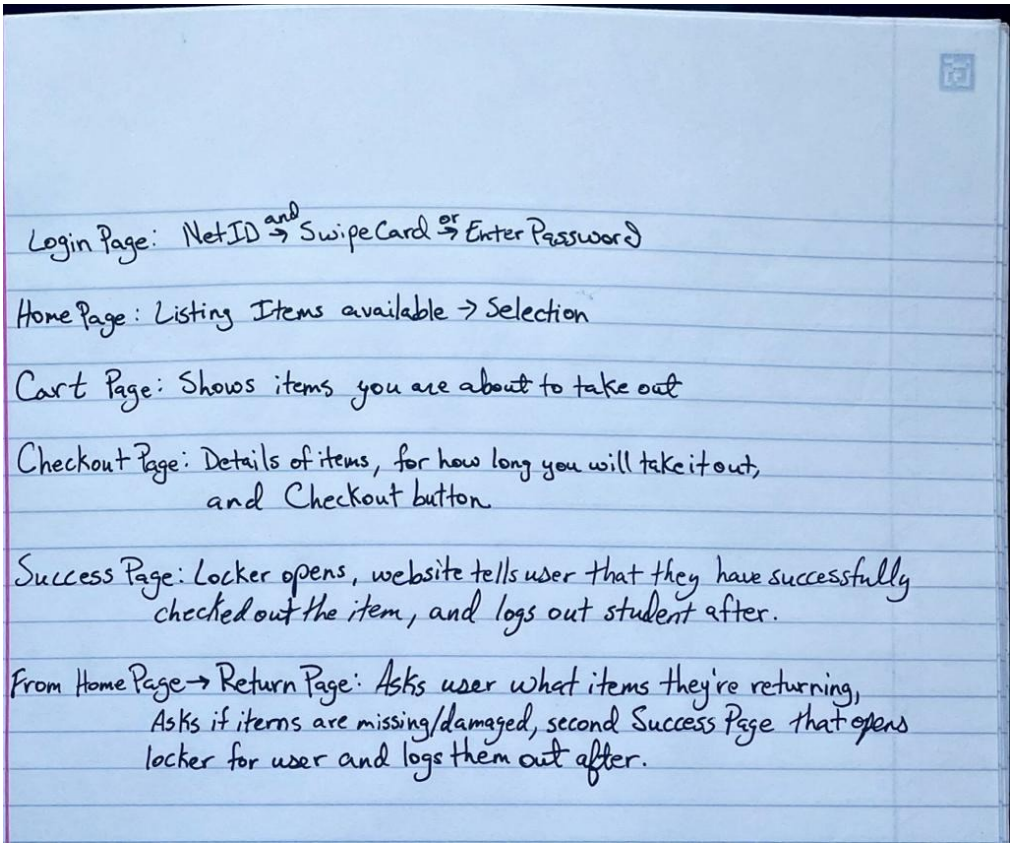
Team Members/Role: Laura Mejía, Ben Johnson, Camille Cramer, Ainara Machargo del Rio, and Jon González

(All the above information should be there in each weekly report. The format/color scheme etc need not be the same. However, please remove everything that is in a bracket from your final submission. These are just part of the template and need not be a part of the report.)

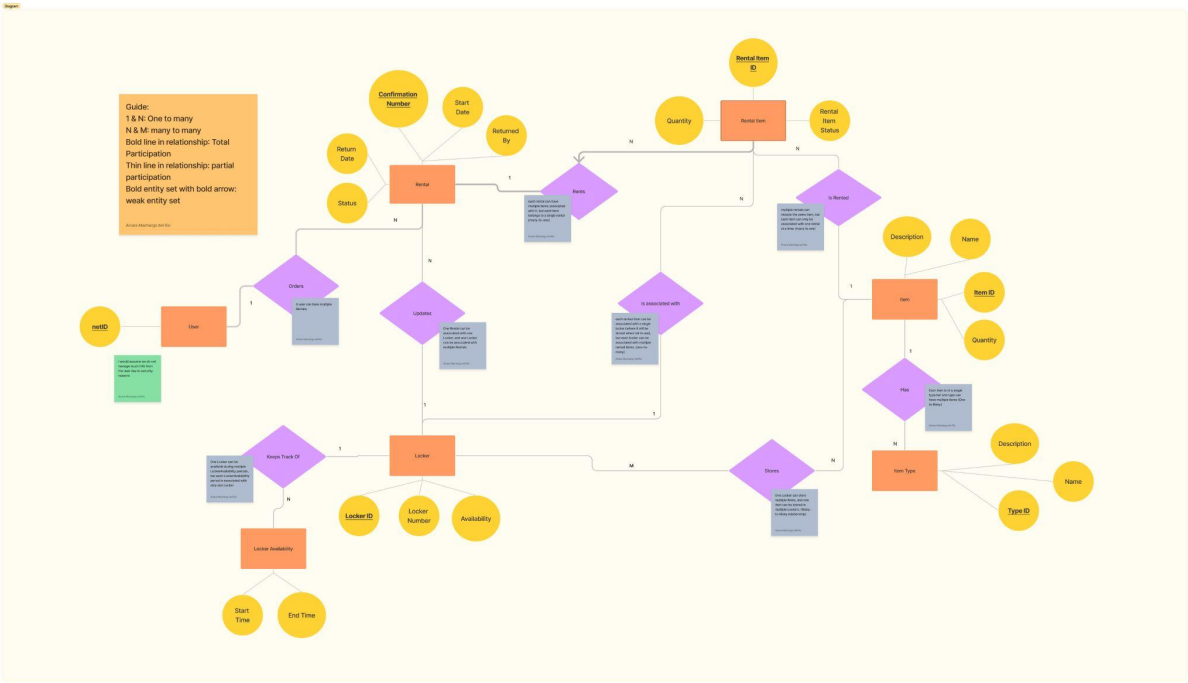
- **Weekly Summary**

This week the team met with Mr. Post to demo our progress on the project. So far, the frontend team has set up a login page, checkout page, and a home page for the project's website; while the backend team started working on python flask server to run on the pi in order to interact with the hardware, added multiple API endpoints to test our ability to remotely open and close the locker doors, and created a high level system overview that we will implement in our project. The backend team also worked on making an ER diagram so that we can visualize how our data will be organized in the database.

- **Past week accomplishments** *(Please describe/summarize as to what was done, by whom, when and, collectively as a group. This should be about a paragraph or two in length. Bulleted points are acceptable as well. Please keep only your technical details related to your project. Figures, schematics, flow diagrams, pseudocode, and project related results are acceptable, but please ensure that they are legible (clear enough to read) and to provide an explanation. If researching a topic, please add a few details about what was learned and how it is relevant to the project. If two or more people worked on a single task, be sure to distinguish how each member contributed to the task. Specific details relating to the assistance provided to other members may be included here.* ***Do not include classwork, such as individual reflection assignments, and group meetings as part of your duties.)***
    - Jon González: Added the html template to the home page I created last week. Also made a draft of the different pages needed for the website.



- Ben Johnson: Set up the pi we were assigned by the client. Downloaded necessary programs and tested the functionality of the API endpoints to manipulate the locker solenoid. Started designing additional endpoints needed on the flask server.
- Camille Cramer: Researched implications of hosting database on server vs on the raspberry pi. Reviewed ER diagram.
- Laura Mejia: Reviewed HTML front end rough draft created by Jon and explored different layouts for the main page of the website.
- Ainara Machargo del Rio: Created an ER diagram for the database using figma.



Pending issues *(If applicable: Were there any unexpected complications? Please elaborate.)*

- Ainara Machargo del Rio: Implement database schema design into SQL code.
- Ben Johnson: Waiting on getting access to the test solenoid to ensure that the LockerController is functioning properly.

o **Individual contributions** *(Creating this section is optional, but it is **Required to include the "Hours Worked for the Week" and their "Total Cumulative Hours" for the project for each member somewhere relevant in your report. Your individual weekly hours should be at a minimum of 6-8 hours for this course. So please manage your time well. Also, ensure that individual contributions support your claim to the weekly hours. Be honest with the reports.)***

NAME	Individual Contributions *(Quick list of contributions. This should be short.)*	Hours this week	HOURS cumulative
Jon González	• Added html template to Home page • Made draft for frontend pages	2	16
Ben Johnson	• Set up Pi given to us by client • Tested existing functionality of API endpoints	3	19
Camille Cramer	• Researched hosting database on Pi • Continued planning backend implementaion	2	17
Ainara Machargo del Rio	• Created the ER diagram for the database using Figma	6	20
Laura Mejia	• Reviewed HTML front end rough draft created by Jon and	2	15

	• Explored different layouts for the main page of the website.		

- **<u>Plans for the upcoming week</u>** *(Please describe duties for the upcoming week for each member. What is(are) the task(s)?Who will contribute to it? Be as concise as possible.)*
    - Our goal is to have a front-end and back-end that can communicate with each other and send a request to open and close the locker by Tuesday, March 7th. This means the backend team needs to be able to receive a request and open/close the locker doors remotely and that the frontend team needs to be able to hit a button and call the API endpoints to send that request.

- **Use Case Diagram:**